BRAIN RESEARCH

VOL. 950 NOS. 1,2 **CONTENTS** **20 SEPTEMBER 2002**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences. Full text available in ScienceDirect® and Neuroscion.

Announcements

Publisher's Announcement v

Brain Research Interactive Young Investigator Awards vi

Brain Research Interactive Young Investigator Awards – November 2001 vii

Call for Papers – Gene Expression Patterns viii

Awards ix

Guide for Authors x

Themes and Topics xiv

Research reports

Effects of lesions of various brain areas on drug priming or footshock-induced reactivation of extinguished conditioned place preference
B. Wang, F. Luo, X.-C. Ge, A.-H. Fu, J.-S. Han (China) 1

Inactivation of the human brain muscarinic acetylcholine receptor by oxidative damage catalyzed by a low molecular weight endogenous inhibitor from Alzheimer's brain is prevented by pyrophosphate analogs, bioflavonoids and other antioxidants
J.R. Fawcett, E.Z. Bordayo, K. Jackson, H. Liu, J. Peterson, A. Svitak, W.H. Frey II (USA) 10

Dorsal root rupture injury induces extension of astrocytic processes into the peripheral nervous system and expression of GDNF in astrocytes
H. Nomura, A. Furuta, T. Iwaki (Japan) 21

Hippocampal noradrenergic responses to CRF injected into the locus coeruleus of unanesthetized rats
V.S. Palamarchouk, A.H. Swiergiel, A.J. Dunn (USA) 31

Learning impairments in monkeys with combined but not separate excitotoxic lesions of the anterior and mediodorsal thalamic nuclei
R.M. Ridley, C.J. Maclean, F.M. Young, H.F. Baker (UK) 39

Neonatal maternal separation reduces hippocampal mossy fiber density in adult Long Evans rats
R.L. Huot, P.M. Plotsky, R.H. Lenox, R.K. McNamara (USA) 52

Spinal cord modulation associated with isometric contractions
J.A. Robichaud, D. Brunt, L. Keith Tennant (USA) 64

Guanine and adenine nucleotidase activities in rat cerebrospinal fluid
L.V.C. Portela, J.P. Oses, A.L. Silveira, A.P. Schmidt, D.R. Lara, A.M.O. Battastini, G. Ramirez, L. Vinadé, J.J.F. Sarkis, D.O. Souza (Brazil, Spain, USA) 74

Mating-activated nitric oxide-producing neurons in specific brain regions in the female rat
S.-P. Yang, J.L. Voogt (USA) 79

The striatum as a target for anti-rigor effects of an antagonist of mGluR1, but not an agonist of group II metabotropic glutamate receptors
K. Ossowska, J. Konieczny, A. Pilc, S. Wolfarth (Poland) 88

Effects of arachidonic acid on sodium currents in rat dorsal root ganglion neurons
G.Y. Lee, Y.K. Shin, C.S. Lee, J.-H. Song (South Korea) 95

Pilocarpine-induced seizure-like activity with increased BNDF and neuropeptide Y expression in organotypic hippocampal slice cultures
F.R. Poulsen, H. Jahnsen, M. Blaabjerg, J. Zimmer (Denmark) 103

Effects of cue exposure on brain glucose utilization 8 days after repeated cocaine administration
C.M. Knapp, B. Printseva, N. Cottam, C. Kornetsky (USA) 119

Effects of NMDA antagonist MK-801 on radial maze performance in Zucker rats
M. Nishiga, Y. Fujii, Y. Sugimoto, M. Konishi, C. Kamei (Japan) 127

Leptin transport across the blood–brain barrier of the Koletsky rat is not mediated by a product of the leptin receptor gene
W.A. Banks, M.L. Niehoff, D. Martin, C.L. Farrell (USA) 130

The effects of chronic ethanol consumption on neurotrophins and their receptors in the rat hippocampus and basal forebrain
R. Miller, M.A. King, M.B. Heaton, D.W. Walker (USA) 137

Regional distribution of protein and activity of the nitric oxide receptor, soluble guanylyl cyclase, in rat brain suggests multiple mechanisms of regulation
P.I. Nedvetsky, C. Kleinschnitz, H.H.H.W. Schmidt (Germany) 148

(Contents continued inside)

0006-8993(20020920)950:1/2;1-K

(contents continued)

The role of the external lateral parabrachial subnucleus in flavor preferences induced by predigested food administered intragastrically
M.A. Zafra, M.J. Simón, F. Molina, A. Puerto (Spain) 155

Sensitized Fos expression in subterritories of the rat medial prefrontal cortex and nucleus accumbens following amphetamine sensitization as revealed by stereology
G. Hédou, A.L. Jongen-Rêlo, C.A. Murphy, C.A. Heidbreder, J. Feldon (Switzerland) 165

Nerve growth factor alters p75 neurotrophin receptor-induced effects in mouse facial motoneurons following axotomy
C.C. Ferri, N. Ghasemlou, M.A. Bisby, M.D. Kawaja (Canada) 180

The distribution of fos immunoreactivity in rat brain following freezing and escape responses elicited by electrical stimulation of the inferior colliculus
M.R. Lamprea, F.P. Cardenas, D.M. Vianna, V.M. Castilho, S.E. Cruz-Morales, M.L. Brandão (Brazil, Mexico) 186

Effect of nitric oxide on release of glutamate in the subretrofacial nucleus (SRF) during the exercise pressor reflex in cats
J. Li, J.H. Mitchell (USA) 195

Phosphorylation of *c-Cbl* protooncogene product following ethanol administration in rat cerebellum: possible involvement of Fyn kinase
H. Nishio, M. Otsuka, S. Kinoshita, T. Tokuoka, M. Nakajima, Y. Noda, Y. Fukuyama, K. Suzuki (Japan) 203

Vole retina is a target for gonadotropin-releasing hormone
C.R. Wirsig-Wiechmann, A.F. Wiechmann (USA) 210

Attenuation of zinc-induced intracellular dysfunction and neurotoxicity by a synthetic superoxide dismutase/catalase mimetic, in cultured cortical neurons
K. Pong, Y. Rong, S.R. Doctrow, M. Baudry (USA) 218

The effects of unilateral removal of the cerebellar hemispheres on motor functions and weight gain in rats
C. Colombel, R. Lalonde, J. Caston (France) 231

Effects of temporary deafferentation on raccoon post-synaptic dorsal column neurons
S.H. Dick, D.D. Rasmusson (Canada) 239

Evidence for different exocytosis pathways in dendritic and terminal dopamine release in vivo
F. Bergquist, H.S. Niazi, H. Nissbrandt (Sweden) 245

Lipophilic fraction of *Panax ginseng* induces neuronal differentiation of PC12 cells and promotes neuronal survival of rat cortical neurons by protein kinase C dependent manner
Y. Mizumaki, M. Kurimoto, Y. Hirashima, M. Nishijima, H. Kamiyama, S. Nagai, A. Takaku, K. Sugihara, M. Shimizu, S. Endo (Japan) 254

Microinjection of orexin into the rat nucleus tractus solitarius causes increases in blood pressure
P.M. Smith, B.C. Connolly, A.V. Ferguson (Canada) 261

Effects of LF 16-0687 Ms, a bradykinin B_2 receptor antagonist, on brain edema formation and tissue damage in a rat model of temporary focal cerebral ischemia
S. Zausinger, D.B. Lumenta, D. Pruneau, R. Schmid-Elsaesser, N. Plesnila, A. Baethmann (Germany, France) 268

Asymmetrical distribution of the Schaffer projections within the apical dendrites of hippocampal field CA1
K. Shimono, D. Kubota, F. Brucher, M. Taketani, G. Lynch (USA) 279

Expression and localization of *cytochrome* $P450_{11\beta,aldo}$ mRNA in the frog brain
M. Takase, K. Ukena, K. Tsutsui (Japan) 288

Aging alters light- and PACAP-induced cAMP accumulation in the suprachiasmatic nucleus of female rats
K. Krajnak, T.O. Lillis (USA) 297

Short communications

TASK-1, TASK-2, TASK-3 and TRAAK immunoreactivities in the rat carotid body
Y. Yamamoto, W. Kummer, Y. Atoji, Y. Suzuki (Japan, Germany) 304

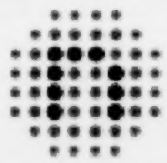
Estrogen induces a rapid increase of calcium-calmodulin-dependent protein kinase II activity in the hippocampus
T. Sawai, F. Bernier, T. Fukushima, T. Hashimoto, H. Ogura, Y. Nishizawa (Japan) 308

Testosterone regulates BCL-2 immunoreactivity in a sexually dimorphic motor pool of adult rats
S.L. Zup, N.G. Forger (USA) 312

Epileptiform burst discharges in hippocampal CA3 neurons of young but not mature Noda epileptic rats (NER)
R. Hanaya, M. Sasa, Y. Kiura, K. Ishihara, T. Serikawa, K. Kurisu (Japan) 317

Organization of the hypoglossal motoneurons that innervate the horizontal and oblique components of the genioglossus muscle in the rat
J.R. McClung, S.J. Goldberg (USA) 321

Author Index 325



To view articles from this journal, visit Neuroscion, the comprehensive neuroscience information service on the web.

Register today at **www.neuroscion.com**

PII: S0006-8993(02)03420-0